

Topic/Objectives: 18-2 Alternative Energy Resources; (1) Explain how water, the sun, wind and hydrogen can all be used to generate electricity; (2) Identify the costs and benefits of hydropower, solar power, wind power and hydrogen fuel, (3) Explain the various technologies utilize water, solar, wind and hydrogen power.	Name:
	Date:
	Period:

Essential Question: What are the potential uses and limitations of renewable energy sources?

Questions:	Notes:
	<p>Hydropower and Ocean Energy</p> <ul style="list-style-type: none"> ◦ _____ is nonpolluting and relatively inexpensive, but comes at a cost. ◦ Dams and reservoirs interrupt natural water flow changing and _____. ◦ Shifts in the landscape can cause _____ and landslides. ◦ Important _____ and nutrients are prevented from moving down stream. ◦ _____ and _____ conversion can be used to generate electricity.
	<p>Solar Energy</p> <ul style="list-style-type: none"> ◦ _____ is a natural means of collecting, storing and distributing the sun’s energy (ex. Greenhouses). ◦ _____ uses technology to collect, move and store heat from the sun. ◦ _____ utilize fluids to move and store heat. ◦ _____ (_____) _____ are used to convert solar energy directly into electrical energy. ◦ Weather, cost of production, and production waste currently _____ solar technology.
	<p>Wind Power</p> <ul style="list-style-type: none"> ◦ Wind power may be utilized by _____ to convert wind’s kinetic energy into electrical energy. ◦ Wind turbines may be found solo or built in groups (_____), and may even be found offshore where winds are greater. ◦ While wind turbines have higher _____, they tend to be more profitable in the long run compared to fossil fuel plants. ◦ Wind power is _____ and has been found to cause damage to landscape, harm wildlife, and cause noise pollution.

[illegible]